

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1           1.       (Currently Amended) A server network comprising:  
2                   a plurality of cluster nodes connected via a SAN according to a SAN-based  
3 protocol; and  
4                   at least first and second router nodes bridging the plurality of cluster nodes to a  
5 LAN,  
6                   wherein the router nodes are connected to the plurality of cluster nodes via the  
7 SAN according to the SAN-based protocol.
  
- 1           2.       (Previously Presented) The network of claim 1, wherein the router nodes are  
2 connected to the LAN via a LAN-based protocol.
  
- 1           3.       (Previously Presented) The network of claim 2, wherein the LAN-based protocol  
2 is TCP/IP.
  
- 1           4.       (Cancelled)
  
- 1           5.       (Currently Amended) The network of claim [[4]] 1, wherein the SAN-based  
2 protocol is one of ~~INFINIBAND~~ INFINIBAND, Next Generation I/O (NGIO), and Future I/O  
3 (FIO).
  
- 1           6.       (Cancelled)
  
- 1           7.       (Previously Presented) The network of claim 1, wherein the second router node  
2 bridges to the plurality of cluster nodes after the first router node fails-over to the second router  
3 node.

1           8.       (Previously Presented) The network of claim 1, wherein the first and second  
2 router nodes bridge to the plurality of cluster nodes in parallel.

1           9.       (Previously Presented) The network of claim 1, wherein each router node  
2 comprises a session management agent for maintaining session information for sessions between  
3 the router node and a cluster node of the plurality of cluster nodes.

1           10.      (Previously Presented) The network of claim 1, wherein each router node  
2 comprises a policy management agent for maintaining connection information and routing  
3 policies for the plurality of cluster nodes.

1           11.      (Previously Presented) The network of claim 1, wherein each router node  
2 comprises a routing agent for maintaining connection information for the plurality of cluster  
3 nodes.

1           12.      (Previously Presented) The network of claim 1, wherein each router node  
2 comprises a filter agent for bidirectional conversion between the SAN based protocol and a LAN  
3 based protocol.

1           13.      (Previously Presented) A server network comprising:  
2                   a plurality of cluster nodes connected via a SAN according to a SAN-based  
3 protocol; and  
4                   at least one router node bridging the plurality of cluster nodes to a LAN,  
5                   wherein at least one cluster node comprises a management node for setting  
6 routing policies on the router node.

1           14.      (Previously Presented) The network of claim 13, wherein the management node  
2 comprises a monitoring agent for obtaining statistics from the router node.

1           15.   (Previously Presented) The network of claim 1, wherein a cluster node of the  
2 plurality of cluster nodes comprises a session management agent for holding session information.

1           16.   (Previously Presented) The network of claim 1, wherein a cluster node comprises  
2 a policy management agent for maintaining routing policies for the plurality of cluster nodes.

1           17.   (Previously Presented) A method of bridging a remote LAN client and plural  
2 SAN cluster nodes, comprising:  
3               receiving a request to establish a connection from the remote LAN client;  
4               in response to the received request, accessing information that maps service types  
5 to respective SAN cluster nodes;  
6               based on a service type specified by the received request and based on accessing  
7 the information, selecting one of the plural SAN cluster nodes;  
8               receiving a LAN protocol communication from the remote LAN client;  
9               transforming the LAN protocol communication into a SAN protocol  
10 communication; and  
11               sending the SAN protocol communication to the selected one of the SAN cluster  
12 nodes.

1           18.   (Cancelled)

1           19.   (Previously Presented) The method of claim 17, further comprising:  
2               maintaining statistical information for the SAN cluster nodes.

1           20 - 21.   (Cancelled)

1           22.   (Previously Presented) A router comprising:  
2                   a session management agent to maintain session information for sessions with a  
3 plurality of cluster nodes over a LAN;  
4                   a routing agent to maintain connection information for the plurality of cluster  
5 nodes connected via a SAN according to a SAN-based protocol, wherein the connection  
6 information maps service types to respective cluster nodes,  
7                   the routing agent to receive a service request that specifies a service type, and the  
8 routing agent to select one of the cluster nodes based on the specified service type and the  
9 connection information; and  
10                  a filter agent to convert between the SAN-based protocol and a LAN-based  
11 protocol.

1           23.   (Original) The router of claim 22, further comprising:  
2                   a policy management agent to maintain routing policies for the plurality of cluster  
3 nodes.

1           24.   (Previously Presented) The router of claim 22, wherein the connection  
2 information comprises a policy table.

1           25.   (Previously Presented) The router of claim 22, wherein the SAN-based protocol  
2 is different from the LAN-based protocol.

1           26.   (Previously Presented) The router of claim 22, wherein the connection  
2 information further comprises information to indicate authentications to be performed for  
3 respective service types.

1           27.   (Previously Presented) The router of claim 22, wherein the connection  
2 information further comprises weighting factor information to indicate a proportion of service  
3 requests to be directed to a respective cluster node for a particular service type.

1           28.   (Previously Presented) The network of claim 1, wherein the cluster nodes  
2 connected via the SAN are viewed by a remote client as being assigned a single IP address.

1           29.   (Previously Presented) The network of claim 2, wherein each router node  
2 includes an agent to convert between communication according to the SAN-based protocol and  
3 communication according to the LAN-based protocol, the SAN-based protocol being different  
4 from the LAN-based protocol.

1           30.   (Previously Presented) The network of claim 29, wherein each router node stores  
2 session information to route data from remote LAN clients to the cluster nodes.

1           31.   (Previously Presented) A method comprising:  
2                   receiving, by a router, a service request from a client over a LAN that operates  
3 according to a LAN-based protocol;  
4                   in response to the service request, the router accessing connection information  
5 mapping service types to respective SAN nodes that are interconnected by a SAN that operates  
6 according to a SAN-based protocol, the SAN-based protocol being different from the LAN-  
7 based protocol; and  
8                   in response to a service type requested by the service request and based on the  
9 connection information, the router selecting one of the SAN nodes to establish a connection  
10 between the client and selected SAN node.